24th Floor a 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

May 13, 1992

Mr. Marshall Bishop Drilling Specialties Company 309 Short Street Bartlesville, OK 74004

Dear Marshall:

Paile Cha there prices for the December 92 run

This letter is to confirm our recent conversations regarding Cedar's prices for the conversion of D8, C0800, and C0300. In the Fall of 1989 Cedar offered to maintain the prices for these products constant for a two-year period in exchange for some concessions on forecasting and timing by Phillips. During this period, Cedar in cooperation with Phillips continued to evaluate productivity and waste disposal issues for C0300, with the productivity issue related to the toll price and the waste issue a go, no go decision for Cedar regarding production of C0300 beyond the two-year period. The two-year program is now complete. It was extended into early 1992 due to our mutual agreement to split the run of products in the Fall of 1991 into two separate campaigns.

At this time, Cedar can continue to produce CO300 at the current levels and handle the waste generated at its on site biotreatment plant. However, productivity dictates that we must increase the toll fee from \$0.33 a pound of CO300 to \$0.70 per pound of CO300. We also feel it is appropriate to adjust the price of D8 and CO800 based upon the normal increase in cost of supplies, wages, etc and would propose a price of \$0.21 for D8 and \$0.22 for CO800. In an effort to simplify the billing procedures, we propose to drop the 5% surcharge on those raw materials purchased by Cedar and also the \$0.03 per pound of TGA for handling the TGA in drums. For D8, this will offset the proposed \$0.02 per pound increase in toll fee by approximately \$0.01 per pound of D8. For CO800, this will offset the proposed increase by approximately \$0.004 per pound of CO800.

The most recent attempt to convert off specification CO800 returned from the field into specification CO300 was a costly venture for Cedar, since the process is not defined. Regretfully, we must decline to attempt this processing in the future until Phillips is able to provide us with a suitably optimized process.

For the on site disposal of CO300 waste through Cedar's biological treatment system, we propose to continue the existing fee of \$0.0171 per pound of waste.

Cedar has produced the Orfom products for a number of years at what we consider to be very competitive prices based upon the concept of using them as fill ins between regularly scheduled production. In retrospect this concept was not viable. When you consider the raw materials involved, the process technology, and the safety and environmental issues, Cedar has been required to treat Orfom products in the same manner as for any other product that it handles. Plant preparation, cleanout, safety reviews, operator training, etc have been consistent with other products made at relatively infrequent intervals. For this reason, we must ask that the above prices be considered applicable only to combined runs of Orfom products which meet a minimum of \$250,000 of combined revenue for Cedar. Based upon current ordering patterns, this should not be a problem for Phillips.

There remains the questions of supply of allyl chloride. do not understand Shell's proposal to offer allyl chloride in drums as a substitute for the material shipped in a tank truck. This would seem to contradict their concern over safety, since the potential for exposure to personnel handling drums is an order of magnitude greater than that for a tank truck. We can understand their concern over the return of a partially used tank truck. It appears to us that the safest method of handling this material would continue to be use of tank trucks with the CO300 run carefully designed to consume complete tank truck quantities. The use of a dedicated storage facility would not appear to be cost effective. Since the product is only used for approximately one-month of the year, we would be faced with either storing residual quantities of allyl chloride for eleven-months between production runs or cleaning out the tank between production runs, neither of which would seem to meet the stability and safety concerns expressed by Shell.

You indicated that you might require a production run before the end of 1992. To soften the harsh economics delivered above, we are prepared to discount Orfom prices from the above schedule by \$0.01 per pound for D8 and CO800 and \$0.05 per pound for CO300 produced before the end of 1992. We have heavy production activity in the last quarter of 1992, thus any Orfom production would need to be scheduled in the third quarter or before.

We hope that you will find this proposal satisfactory and we can continue to make Orfom products for Phillips. Please contact me, if any clarification of this proposal is required.

sincerely,

Geoffrey L. Pratt

Director of Custom Manufacturing

MC

Г		PURCHASE ORDER  1 574875
V	· .	emical Corporation NU.
N -		242 South DATE February 19, 1992 CHANGE #2
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ITEM NO.	QUANTITY	CHARGE AND IF APPLICABLE,  DESCRIPTION PHILLIPS STOCK NUMBER
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2	105,000	CO800 (refill the empty CO800 drums that were shipped from Houston with
·	ents must be	fresh (C0800) Commence of the
3	NO CI	
	ear, wan rur Phillips Form vered by it	to the constitutive distriction of the countries of the constitution of the countries of th
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FROM 918-661-5174

06-26-91 09:41 AM

XC: BC
TELEPHONE: 1-800-221-1956 TELEX: 49-2456 DSB PAX: 918-661-3174
DATE: Fel 2 1992
TO: Seoff Pratt FROM:
COMPANY: & Coder Mr. Bushop
IDOATION: Memphie, TN
PHILLIPE >
PANAFAX #: 901-684-5398 (66)
MINING CHEMICAL
Including cover page, there are / pages in this Panafax.
MESSAGE: as we discussed in our phone
conversation yesterday we need to
change our production run again.
We will issue a change # 2 to the
ρ. σ.
We now need to change the cosoo production
from 0 to approx 105,000 165. We
san rework the drums of co 800 from Houston
converting it to co300 and refill the drums with frest co 800 parator sending Panafak: Date: Time:
A sincerely apologize for the changes.
Marshell

CC: BC

JK NR<sup>U</sup>

MP

LATEST WORD FROM GEOFF 1600 ON 2/6 RE: PHILLIPS RUN

D-8 NEEDED 340,000 LBS (SAME AS BEFORE)

CO-800 NEEDED APROXIMATELY 104,892 (ENOUGH TO REFILL THE 192 DRUMS THAT WE'RE EMPTYING TO REWORK INTO CO-300)

### CO-300 NEEDED:

ORIGINAL DEMAND	300,000
MADE IN SEPT	116,700
LEFT TO MAKE	183,300
MAKE FROM CO-800 REWORK (104,892 # CO-800 TIMES 0.53):	55,593
CO-300 MADE FROM SCTRATCH	127,707

THERE IS SUPPOSED TO BE SOME WRITTEN DOCUMENTATION COMING ALONG.

BIG NEWS IS THAT WE'RE NOW SUPPOSED TO MAKE CO-800. LET'S FIGURE OUT HOW MANY FULL BATCHES COMES CLOSE TO THE 192 EMPTY CO-800 DRUMS THAT WE'LL HAVE FROM THE REWORK.

PLEASE LET ME KNOW WHAT THIS ALL MEANS - I'M VERY CONFUSED!

DVH 2/6/92

## 1991

. Co 300

300,000 lba

.33 ₺

C 0 800

lbs 70,000

.204

8-4

170,000 lbs .194

148,215 160 CSZ

+590

102,342 lbo CAUSTIC (204,684 50%) +5%

TGA IN DRUMS ADDITIONAL . 03 pm 16 of TEA

CO300 WASTE TREATMENT @ ,0171 # WW TO PONDS

### **CEDAR INTERNAL CORRESPONDENCE**

DATE:

7/24/90

TO:

John Miles

FROM:

Geoffrey L. Pratt

CC:

Neil Robbins Charlie Parker

SUBJECT:

Phillips Orfom Runs

Would you arrange to have the computer report which tracks productivity and raw material consumption mailed to Marshall Bishop on a weekly basis during Orfom runs. He should also receive the adjusted summary report showing the same information once the final physical inventory adjustments have been made.

Marshall told me that he recently approved an invoice for truck freight and demurrage on a shipment of CO300 from January of 1990! He asked, that when Cedar sends the final billing for a campaign of Orfom products, that we attach a list of unbilled pass through items for which Cedar is awaiting an invoice, from the vendor. The unbilled items should have an identification number so that Phillips' accounting department can process a delayed invoice against the project purchase order when that invoice is finally submitted.

Please let me know, if clarification of this request is needed.

eoffer L. Prats

mс

### CEDAR INTERNAL MEMO WEST HELENA PLANT

DATE: June 27, 1990

TO: Geoff Pratt

FROM: Charlie Parker

CC: Orfom production

RE: J. Miles

N. Robbins

R. Johns

G. Satterfield

J. Walker

Per your request, I have contacted Phillips concerning immediate production start-up for the Orfom products. Cynthia Beck instructed me to use the Purchase Order number <u>0-D000931</u> for all three products. The order will be for:

Product	Quantity	Shipping Container
D-8	230,000 lbs	500 gal. bulk-tainer
C-0800	250,000 lbs	55 gal drums
C0300	200,000 lbs	Tank Trucks

The TGA will again be supplied in drums. We will begin production when the raw materials arrive, hopefully July 11, 1990.

_	PURCHASI	E ORDER	0	D004444
Cedar Che	mical Corporation		No. 9	D001144 —
P.O. Box	2279	DATE <u>February</u>	, 23 1990	
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c/o Cedar	Chemical Corporation	SHIP BY		
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ER ALL INQUIRIES TO:	Phillips Chemical Co., 309 Short St., Bartlesville, OK 74004 State and grade of the state of the	SOTHER COL	<u>-</u>	THE THEORY
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P.O. Box 2749, Hwy. 242 S. • West Helena, AR 72390 (501) 572-3701 • Fax No. 501-572-3795



11/21/89

Marshall Bishop Phillips Mining Chemicals 309 Short Street Bartlesville, OK 74004

Dear Marshall,

I would like to take this opportunity to confirm our recent conversations regarding the present Orfom products campaign. These items are:

- 1. TGA will be supplied in drums. Cedar will be paid \$0.03 per pound of TGA to cover the additional handling costs. D-8 product will be packaged back into the used, rinsed drums.
- 2. Cedar will rework 56 drums of old CO-800 into CO-300. Cedar will be paid \$0.06 per pound of CO-800 reworked in addition to the C-0300 production fee. cost of disposal of the old rums will be billed to Phillips.

In addition to the above items, I would like to confirm, per conversation with Geoff Pratt, that the billing price for your products will increase, effective this campaign, to the following:

D-8	from	\$0.17	to	\$0.19	per	pound
CO-800	from	\$0.18	to	\$0.20	per	pound
CO-300	from	\$0.30	to	\$0.33	per	pound

If you have any questions concerning the above, please call me.

John Miles

cc: Neil Robbins Charlie Parker Geoff Pratt

Marshall Bishop Phillips Mining Chemicals 309 Short Street Bartlesville, OK 74004

### Dear Marshall,

I would like to take this opportunity to confirm our recent conversations regarding the present Orfom productscampaign. These items are:

- 1. TGA willbe supplied in drums. Cedar willbe paid \$0.03 per pound of D-8 to cover the additional handling costs. D-8 product will be packaged back into the used, rinsed drums.
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In addition to the above items, I would like to confirm, per conversation with Geoff Pratt, that the billing price for your products will increase, effective this campaign, to the following:

D-8	from	\$Ø.17	to	\$Ø.19	per	pound
CO-Ø8ØØ	from	\$Ø.13	to	\$Ø.2Ø	per	pound
CO-Ø3ØØ	from	\$Ø.3Ø	to	\$Ø.33	per	pound

If you have any questions concerning the above, please call me.

Dec 89 PO# 9-D00/142 Sincerely, 13-8 475,000 John Miles CUSO 170,000

C0300 /09,000

CC: Neil Charlie

P.O. Box 2749, Hwy. 242 S. • West Helena, AR 72390 (501) 572-3701 • Fax No. 501-572-3795

1989 D-8 & C0800

Production Summary - 1989

D-8 March &	April 513,000 lb	in 570 lb/net	drums	. `	
Raw Materials	Usage	1989 Yield	Recipe	1988 Yield	1987 Yield
TGA	114,520 lbs.115,	.2232	.2214	.2220	.2213
CS <sub>2</sub>	75,035 lbs. ✓	.1462	.1435	.1436	. 1447
CS <sub>2</sub> NAOH	213,080 lbs./	.4153	. 4076	.4039	.4683

C0800 May 105	,450 <sup>/</sup> lbs. in 57	0 lb/net drums		
Raw Materials	Usage	1989 Yield	Recipe	1988 Yield
N.Bush	24,980 24,376	.2368	.2320	.2390
NAOH	32,900 <	.3119	.3050	.3090
CS <sub>2</sub>	17,060 🗸	.1617	.1620	.1640

cc: John Miles
Tom Lodice
Greg Satterfield
Ken Howard
Neil Robbins

FROM: Charlie Parker

1989

P.O. 9-DODIOII

520,000 lbs D-8 e.17 100,000 lbs Co-800 e.18

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

### CEDAR INTERNAL CORRESPONDENCE

DATE: 10/7/88

то:Johh Miles

FROM: Charlie Parker

SUBJECT: Phillips Production

cc:R. Johns

K. Howard

J. Walker

T. Lodice

G. Satterfield

N. Robbins

D-8

Total lbs. to produce 332,200 Requested in bulk 135,000 Requested in drums 197,000

C-0800

Total 1bs. to produce 214,800
Requested in bulk 80,000
Requested in drums 134,800
(will not have CS<sub>2</sub> to produce this much)

EXPECTED D-8 START-UP 10/13/88

_	•	PURCHASE ORDER
	edar Ch	emical Company No. 8 D000779
۷ E	24th), 10	or
D O B	5100 Pop	DATE Sept. 19. 1988  AND MAIL TO COMPANY SHOWN BELOW SEPARATE ITEMIZED AND EXTENDED INVOICE IN TRIPLICATE FOR EACH SHIPMENT, SHOWING ABOVE ORDER NO.  H INCLUDING PREFIX AND SUFFIX.
_	,	TN 38137  ND CONSIGNEE ADDRESS ON ALL SHIPPING PAPERS AND TAGS:  A PURCHASER— PHILLIPS CHEMICAL COMPANY A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY E
	PHILLIPS CHE	MICAL COMPANY
SH	•	
	•	to be given for each release) ship By
5		TREPAID UNINSURED UNINES THE LEAST EXPENSIVE OF MOTOR FREIGHT OR EXPRESS
REFER	R ALL INQUIRIES TO:	Phillips Chemical Co., 309 Short St.,
		Bartlesville, OK 74004 F.O.B. DEST. F.O.B. ORIGIN
	ARGE O	RFE INVOICES, PACKING LISTS AND TAGS SHOULD SHOW  CHARGE AND IF APPLICABLE,
ITEM NO.	QUANTITY	DESCRIPTION , PHILLIPS STOCK NUMBER
_		Orfom D-8 (approximately) TAX EXEMPT - FOR RESALE
1,	332,200#	
2.	214,800#	Orfom CO800 (approximately)
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		CONFIRMING ORDER - DO NOT DUPLICATE
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PHILLIPS (B)

By Debbie Cook



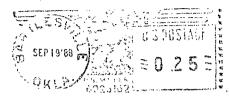
#### **TERMS AND CONDITIONS**

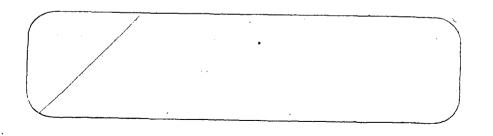
- 1. The Uniform Commercial Code (U.C.C.) of the Purchaser's "BILL TO" location, or other applicable commercial law where the U.C.C. has not been adopted in Purchaser's "BILL TO" location, shall, to the extent it is not inconsistent with the provisions of this Purchase Order, be utilized to construe and govern this Purchase Order and performance hereunder.
- 2. In addition to any other applicable mode of acceptance, delivery of any goods specified in this Purchase Order will constitute acceptance of this Purchase Order with all its Terms and Conditions and will constitute Vendor's certification that goods delivered hereunder have been produced or certified to Vendor as produced in accordance with the Fair Labor and Standards Act of 1938, as amended.
- 3. Vendor shall advise at once if unable to meet specified shipping date(s). Time is of the essence of this Purchaser Order and Purchaser reserves the right to cancel this order at any time if specified shipping date(s) is (are) not met.
- 4. Vendor shall assure that each shipment contains a packing slip listing contents. Purchaser's count will be accepted as final and conclusive on all shipments not accompanied by a packing slip.
- 5. No minimum order charges, or charges for packing, cartage, insurance or value charges by any mode of transportation shall be payable or paid by Purchaser unless so specified on this Purchase Order.
- Vendor shall show all applicable cash discounts on all invoices. When invoices are not mailed on invoice date, discount period will be computed from date of invoice receipt.
- 7. Prepaid Shipment charges must be supported by copy of Bill of Lading and Carriers receipted bill. Collect shipments must be computed from date received.
- 3. Concerning orders of goods worth \$10,000 or more where Vendor has not previously signed an annual agreement with Purchaser agreeing to comply with all Federal Equal Employment Opportunity and Nondiscriminatory Regulations, Phillips Form 3039 is attached and acceptance of this Order will indicate your agreement to comply with the regulations covered by it.
- .9. Vendor agrees to show Purchaser's item numbers and description on all invoices.
- 10. Vendor shall maintain a true and correct set of records pertaining to the work performed hereunder and all transactions related thereto for a period of at least two years after completion of this purchase order. Any representative authorized by the Purchaser may audit such records for the sole purpose of determining whether there has been compliance with the following paragraph:

Vendor shall not pay any commissions, fees, or grant any rebates, to any employee or officer of the Purchaser for his personal or private benefit, nor favor employees or officers of the Purchaser with gifts or entertainment of significant cost or value, nor enter into any business arrangements with employees or officers of the Purchaser which benefit them, personally or privately, for services they perform as Purchaser representatives.

11. THIS PURCHASER ORDER, INCLUDING THE DESCRIPTION OF MERCHANDISE, EQUIPMENT AND/OR ACCESSORIES, ALONG WITH ANY PROPOSAL, BID, QUOTATION OR OTHER DOCUMENT ATTACHED HERETO, EXPRESSLY REFERENCED HEREIN AND MADE A PART HEREOF, IS AN OFFER TO PURCHASE AND ACCEPTANCE IS EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS.SET.OUT.IN.SUCH.OEFER..ANY ACCEPTANCE, PROPOSAL, BID, QUOTATION OR OFFER NOT SO MADE A PART HEREOF WHICH STATES TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE SO OFFERED HEREIN SHALL NOT BE BINDING ON PURCHASER AND PURCHASER HEREBY REJECTS ANY SUCH ADDITIONAL OR DIFFERENT TERMS AND CONDITIONS UNLESS SUCH ADDITIONAL OR DIFFERENT TERMS AND CONDITIONS.









309 Short Street

Bartlesville, Oklahoma 74004 Telephone: 918-661-8617

Telex: 49-2455 TWX: 910-841-2560

February 4, 1988

# Confirming Purchase Order MDB-7-88

Cedar Chemical Corporation 24th Floor 5100 Poplar Avenue Memphis, TN 38137

Attention: Geoffrey L. Pratt

Dear Mr. Pratt:

The attached purchase order confirms our conversation and the verbal purchase order for the manufacture of Orfom D8, and Orfom C0300. As per the P.O. we would like you to produce approximately 300,000 pounds of D8 and 109,000 lbs of C0300. Your quoted conversion fee of \$0.17/lb for D8 and \$0.30/lb for C0300 is acceptable.

It is agreeable to us for you to continue handling feedstock purchases and waste disposal charges and invoicing those charges back. We do believe we can save some money on freight especially on the TGA. Therefore, we request that you consult with Sheila Price (918-661-8617) regarding shipping.

Anticipated feedstock usage and costs are as follows:

Carbon disulfide	84,240	lbs	at	\$0.21/lb
Sodium hydroxide	164,000	lbs of 50%	at	\$0.10/lb
Thioglycolic acid	66,411	lbs of 80%	at	\$1.54/lb
n-butyl mercaptan	48,000	lbs	at	\$0.60/lb
Allyl chloride	40,728	lbs	at	\$0.71/lb
Waste disposal			at	\$0.32/gal.

If feedstock costs are greater than 5% above those anticipated, we require that you advise us before purchase.

It is my understanding that manufacture will commence the first part of March, 1988. I also believe we agreed that the n-butyl mercaptan would be supplied in a railcar for ease in handling.

-	-	PURCHASE	ORD	ER		
ce	ar Ch	emical Corp.		<sup>*.</sup>	۰. La	<u> D000640 — </u>
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February 4, 1988

Page 2

Regarding: Confirming Purchase Order

I have attached a revised Orfom D8 operating procedure showing the weight of TGA and water corrected for using 80% thioglycolic acid.

Sincerely,

M. D. Bishop

Marshall

MDB:mg

cc: R. E. Michels Sheila Price

Enclosure

# OPERATING PROCEDURES ORFOM D-8 - 1000 LB BATCH

- 1. Charge caustic (NaOH) from tank using pump 407.6 lbs (50% soln).
- 2. Vent reactor to scrubber.
- 3. Turn on mixer.
- 4. Full cooling water flow to reactor.
- 5. Charge water 227.5 lbs (32.6 gal).
- 6. Charge mercapto acetic acid (thioglycolic acid, HS-CH<sub>2</sub>-CO<sub>2</sub>H) 221.37 pounds of 80% active controlling the charge rate so that temperature does not rise above 130° F (54° C).
- 7. Hold temperature at 120° F (49° C) for 30 minutes after all TGA has been added.
- 8. Charge carbon disulfide (CS $_2$ ) 143.5 lbs controlling the charge rate so that temperature does not rise above 130° F (54° C).
- 9. Hold temperature at 120° F (49° C) for one hour after all CS<sub>2</sub> has been added.
- 10. Sample reactor product and test for following:

pH - minimum 12.0 Flash point - (PMCC ASTM D93) greater than 100° F Disodium carboxy methyl trithiocarbonate - 35% minimum

### TYPICAL PHYSICAL PROPERTIES:

Density at 60°F/16°C
Flash Point, TCC
Pour Point
Kinematic Viscosity
(cst @ 70°F)

10.8 lbs/gal/1.29 g/cc) 110°F43°C 30°F/-1°C 5.44





309 Short Street Bartlesville, Oklahoma 74004 Telephone 918-661 8617 Telex: 49 2455 TWX: 910-841 2560

August 28, 1987

Manufacture of Mining Chemicals
MDB-62-87

Cedar Chemical Corporation 24th Floor 5100 Poplar Avenue Memphis, TN 38137

Attention: Geoffrey L. Pratt

Dear Jeff:

The attached purchase order confirms our conversations concerning the manufacture of two chemicals, tradenamed Orfom<sup>R</sup> D8, and Orfom<sup>R</sup> CO300. These products are disodium carboxy methyl trithiocarbonate and allyl n-butyl trithiocarbonate, respectively. Your quoted conversion cost of \$0.20 per pound of product is acceptable.

The smallest bulk quantity of carbon disulfide available is 8000 gallons (84,240 pounds). The synthesis of about 158,000 pounds of D-8 and 164,000 pounds of CO300 would use the full railcar load of CS2. These quantities would consume about 28,000 pounds of thioglycolic acid, 72,000 pounds of n-butyl mercaptan, 61,000 pounds of allyl chloride, and 127,000 pounds of 50% caustic.

For the initial synthesis run we prefer you to purchase all feedstocks and dispose of waste solutions, billing us your invoice cost: Anticipated feedstock costs are as follows:

carbon disulfide	\$0.21/1b			
sodium hydroxide	\$0.10~\$0.12/1b			
thioglycolic acid	\$1.40-\$1.50/16			
n-butyl mercaptan	\$0.57/lb			
allyl chloride	\$0.71/1b			
waste disposal	\$0.32/gallon			

If costs are greater than 5x above those anticipated, we require that you advise us.

A sample of the waste stream from the CO300 manufacture will be sent to you in the near future.

Sincerely,

Marshall D. Bishop

MDB: mg

cc: R. M. Parlman

W. S. Stewart

R. E. Michels

Attachment

	PURCHAS	E ORDER			
Cedar Chem	nical Corp.	-	No. 7	<u>D00045</u> 5	- G
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164,000#	Orfom CO300 (approximately)				
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### CEDAR INTERNAL CORRESPONDENCE

DATE: 8/28/87

Tom Lodice TO:

FROM:

Charlie Parker

John Miles CC:

Greg Satterfield Ken Howard

SUBJECT: Phillips Raw Materials

Neil Robbins Geoff Pratt

John Whitsitt

Below are the price quotes for raw materials to be used in the Phillips project.

Carbon Disulfide

PPG Bridget Nance 800-323-7302

Railcar Price .21/Ib. FOB Houston, Tx.

> .045/lb. Frt.

84,320 lb. .255/lb.

Thioglycolic Acid

Cardinal Chemical Mrs. Ross 803-799-7190

Tank Truck Price 2.20/lb. FOB Columbia, S.C.

.17/lb. Frt. Rubber lined truck - round trip

18,000 lb. 2.37/lb.

Allyl Chloride

Shell Chemical Lloyd Dixon 713-241-6161

Tank truck price .71/lb. Delivered

66,000 lb.

N-Butyl Mercaptan

Phillips 66 Joe Singletary 800-858-4327

Tank Truck Price .61/lb FOB Border, Tx.

.04/lb. Frt.

77,000 lb.

.65/lb.

50% Caustic

Chem-Tech Beverly 800-238-7433

Tank Truck Price 160.00/ton 100% Basis

.08/lb. FOB Memphis

.005/lb. Frt.

108000 lb. ASIS

.085/lb.

Sodium Hypochlorite

Thompson Hayward Sue 901-948-3321

Tank Truck

.45/gallon

.04/lb. FOB Memphis

.005/lb. Frt.

.045

24th Floor • 5100 Poplar Avenue • Memphis, TN 38137 • 901-685-5348

August 6, 1987

neill. Charlist Joe P. Shy S.

Mr. Marshall Bishop Special Projects Manager Phillips 66 Company 309 Short Street Bartlesville, Oklahoma 74004

Dear Marshall:

We enjoyed having you at our West Helena Plant last week and hope the visit was helpful to you in assessing our toll manufacturing capabilities.

As we agreed, I am confirming the verbal proposal made to you for the production of 200,000-300,000 lbs. of ORFOM D-8 and ORFOM C0300. For an initial campaign we propose a processing fee of 20 cents per lb. of either product. This fee includes all production and quality control costs but excludes the cost of raw materials, transportation to and from the plant and off-site waste disposal. Waste disposal does not appear to be an issue for ORFOM D-8. For ORFOM C0300 we estimate that off-site deep well disposal would cost approximately 32 cents per gallon of aqueous waste which would be billed to your account at our cost.

If you can provide us with the characterization of the aqueous waste we can make a determination as to its suitability for treatment in our system which usually results in a lower waste treatment cost.

If you wish Cedar to purchase any raw materials we will do so after providing you with estimated costs and will bill you at the actual delivered cost based on the freight, and material suppliers invoices.

We are unable to accurately project future tolling price trends until we have gained experience with the products. However, we anticipate that meaningful tolling price relief would require significantly larger annual volumes, either of these current products, or a combination of these products and others. Mr. Marshall Bishop August 6, 1987 Page 2

Assuming that the processes proceed as you have described we would see no difficulty in maintaining continuity of supply for your market for D-8, and CO300.

For the initial campaign we plan to use the raw materials directly out of the road containers to minimize plant contamination. We have agreed to size the campaign around a rail car of carbon bisulphide. You indicated that the D-8 should be packaged in drums and the C0300 will be shipped in bulk. The packaging cost is included in our fee but the cost of drums and any demurage associated with the campaign would be to your account. The plant is available immediately.

We hope that this campaign will be the beginning of a long relationship with Phillips 66. Please call if this quotation requires clarification or if additional issues need to be covered.

We appreciate you considering Cedar for your project.

Sincerely,

Geoffrey L. Pratt

Director of Operations Custom Manufacturing

GLP:nm

cc: Mr. Ron Cheves

Mr. John Miles

10

### CEDAR INTERNAL CORRESPONDENCE

DATE: 12-7-92

To: Dave Hoppel

FROM: Norman Rowan

Tom Lodice Neil Robbins

SUBJECT: Allyl Chloride Tank CAR S9225-1790 closure

Work has been completed on the installation of the Allyl Chloride tank. Work included tank and pump installation, piping and instrumentation. The total cost went over due to purchase of special fittings for truck unloading and repair to the tank. The total costs related to this project are 16,395.00 as of 12-9-92. There will be no other charges to this account.

Jufo DVH 1/4

This doesn't lock like Phillips contributed to the problem of over yurding. I don't plan to ask Phillips to cover beyond wholever the reminding of the 1992 discount covers. I would guen about 10000.

